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**NUCLEAR REACTIONS, NUCLEOSYNTHESIS, ABUNDANCES**

Nuclear Partition Functions at Temperatures Exceeding  $10^{10}$  K. *T. Rauscher*. 147, 403 (2003)

**PLASMAS**

Atomic Data and Spectral Line Intensities for S x. *A. K. Bhatia & E. Landi*. 147, 409 (2003)

**RADIATIVE TRANSFER**

The Numerical Simulation of Radiative Shocks. I. The Elimination of Numerical Shock Instabilities Using a Local Oscillation Filter. *Ralph S. Sutherland, David K. Bisset, & Geoffrey V. Bicknell*. 147, 187 (2003)

Beyond Flux-limited Diffusion: Parallel Algorithms for Multidimensional Radiation Hydrodynamics. *John C. Hayes & Michael L. Norman*. 147, 197 (2003)

Non-LTE Model Atmospheres for Late-Type Stars. I. A Collection of Data for Light Neutral and Singly Ionized Atoms. *Carlos Allende Prieto, David L. Lambert, Ivan Hubeny, & Thierry Lanz*. 147, 363 (2003)

**RADIO CONTINUUM: GENERAL**

Mitigation of Radar Interference in L-Band Radio Astronomy. *S. W. Ellingson & G. A. Hampson*. 147, 167 (2003)

**RADIO CONTINUUM: STARS**

Statistical Analysis of 5 Year Continuous Radio Flare Data from  $\beta$  Persei, V711 Tauri,  $\delta$  Librae, and UX Arietis. *Mercedes T. Richards, Elizabeth B. Waltman, Frank D. Ghigo, & Donald St. P. Richards*. 147, 337 (2003)

**RADIO LINES: GENERAL**

Mitigation of Radar Interference in L-Band Radio Astronomy. *S. W. Ellingson & G. A. Hampson*. 147, 167 (2003)

**SCATTERING**

Broad H $\alpha$  Wings in Nebulae around Evolved Stars and in Young Planetary Nebulae. *A. Arrieta & S. Torres-Peimbert*. 147, 97 (2003)

**SHOCK WAVES**

Cosmos: A Radiation-Chemo-Hydrodynamics Code for Astrophysical Problems. *Peter Anninos, P. Chris Fragile, & Stephen D. Murray*. 147, 177 (2003)

The Numerical Simulation of Radiative Shocks. I. The Elimination of Numerical Shock Instabilities Using a Local Oscillation Filter. *Ralph S. Sutherland, David K. Bisset, & Geoffrey V. Bicknell*. 147, 187 (2003)

**STARS: ACTIVITY**

Statistical Analysis of 5 Year Continuous Radio Flare Data from  $\beta$  Persei, V711 Tauri,  $\delta$  Librae, and UX Arietis. *Mercedes T. Richards, Elizabeth B. Waltman, Frank D. Ghigo, & Donald St. P. Richards*. 147, 337 (2003)

**STARS: AGB AND POST-AGB**

Broad H $\alpha$  Wings in Nebulae around Evolved Stars and in Young Planetary Nebulae. *A. Arrieta & S. Torres-Peimbert*. 147, 97 (2003)

**STARS: ATMOSPHERES**

Non-LTE Model Atmospheres for Late-Type Stars. I. A Collection of Data for Light Neutral and Singly Ionized Atoms. *Carlos Allende Prieto, David L. Lambert, Ivan Hubeny, & Thierry Lanz*. 147, 363 (2003)

Symmetrical Chemi-Ionization and Chemi-Recombination Processes in Low-Temperature Layers of Helium-rich DB White Dwarf Atmospheres. *A. A. Mihajlov, Lj. M. Ignjatović, M. S. Dimitrijević, & Z. Djurić*. 147, 369 (2003)

**STARS: BINARIES: CLOSE**

Statistical Analysis of 5 Year Continuous Radio Flare Data from  $\beta$  Persei, V711 Tauri,  $\delta$  Librae, and UX Arietis. *Mercedes T. Richards, Elizabeth B. Waltman, Frank D. Ghigo, & Donald St. P. Richards*. 147, 337 (2003)

**STARS: BINARIES: GENERAL**

The Nature of Overluminous F Stars Observed in a Radial-Velocity Survey. *R. F. Griffin & A. A. Suchkov*. 147, 103 (2003)

**STARS: BINARIES: SYMBIOTIC**

Broad H $\alpha$  Wings in Nebulae around Evolved Stars and in Young Planetary Nebulae. *A. Arrieta & S. Torres-Peimbert*. 147, 97 (2003)

**STARS: CORONAE**

Statistical Analysis of 5 Year Continuous Radio Flare Data from  $\beta$  Persei, V711 Tauri,  $\delta$  Librae, and UX Arietis. *Mercedes T. Richards, Elizabeth B. Waltman, Frank D. Ghigo, & Donald St. P. Richards*. 147, 337 (2003)

**STARS: EVOLUTION**

The Nature of Overluminous F Stars Observed in a Radial-Velocity Survey. *R. F. Griffin & A. A. Suchkov*. 147, 103 (2003)

**STARS: FLARE**

Statistical Analysis of 5 Year Continuous Radio Flare Data from  $\beta$  Persei, V711 Tauri,  $\delta$  Librae, and UX Arietis. *Mercedes T. Richards, Elizabeth B. Waltman, Frank D. Ghigo, & Donald St. P. Richards*. 147, 337 (2003)

**STARS: FUNDAMENTAL PARAMETERS**

The Nature of Overluminous F Stars Observed in a Radial-Velocity Survey. *R. F. Griffin & A. A. Suchkov*. 147, 103 (2003)

**STARS: INDIVIDUAL****Constellation Name: UX Arietis**

Statistical Analysis of 5 Year Continuous Radio Flare Data from  $\beta$  Persei, V711 Tauri,  $\delta$  Librae, and UX Arietis. *Mercedes T. Richards, Elizabeth B. Waltman, Frank D. Ghigo, & Donald St. P. Richards*. 147, 337 (2003)

**Constellation Name:  $\delta$  Librae**

Statistical Analysis of 5 Year Continuous Radio Flare Data from  $\beta$  Persei, V711 Tauri,  $\delta$  Librae, and UX Arietis. *Mercedes T. Richards, Elizabeth B. Waltman, Frank D. Ghigo, & Donald St. P. Richards*. 147, 337 (2003)

**Constellation Name:  $\beta$  Persei**

Statistical Analysis of 5 Year Continuous Radio Flare Data from  $\beta$  Persei, V711 Tauri,  $\delta$  Librae, and UX Arietis. *Mercedes T. Richards, Elizabeth B. Waltman, Frank D. Ghigo, & Donald St. P. Richards*. 147, 337 (2003)

**Constellation Name: V711 Tauri**

Statistical Analysis of 5 Year Continuous Radio Flare Data from  $\beta$  Persei, V711 Tauri,  $\delta$  Librae, and UX Arietis. *Mercedes T. Richards, Elizabeth B. Waltman, Frank D. Ghigo, & Donald St. P. Richards*. 147, 337 (2003)

**Bright Star Number: HR 1099**

Statistical Analysis of 5 Year Continuous Radio Flare Data from  $\beta$  Persei, V711 Tauri,  $\delta$  Librae, and UX Arietis. *Mercedes T. Richards, Elizabeth B. Waltman, Frank D. Ghigo, & Donald St. P. Richards*. 147, 337 (2003)



**Name: Algol**

Statistical Analysis of 5 Year Continuous Radio Flare Data from  $\beta$  Persei, V711 Tauri,  $\delta$  Librae, and UX Arietis. *Mercedes T. Richards, Elizabeth B. Waltman, Frank D. Ghigo, & Donald St. P. Richards.* 147, 337 (2003)

**Alphanumeric: Sk 108**

The Complete *Far Ultraviolet Spectroscopic Explorer* Spectrum of the Small Magellanic Cloud Star Sk 108. *Christoforos Mallouris.* 147, 265 (2003)

**STARS: KINEMATICS**

The Nature of Overluminous F Stars Observed in a Radial-Velocity Survey. *R. F. Griffin & A. A. Suchkov.* 147, 103 (2003)

**STARS: MASS LOSS**

Broad H $\alpha$  Wings in Nebulae around Evolved Stars and in Young Planetary Nebulae. *A. Arrieta & S. Torres-Peimbert.* 147, 97 (2003)

**STARS: PRE-MAIN-SEQUENCE**

The Nature of Overluminous F Stars Observed in a Radial-Velocity Survey. *R. F. Griffin & A. A. Suchkov.* 147, 103 (2003)

An *IUE* Atlas of Pre-Main-Sequence Stars. III. Co-Added Final Archive Spectra from the Long-Wavelength Cameras. *Jeff A. Valenti, Adam A.*

*Fallon, & Christopher M. Johns-Krull.* 147, 305 (2003)

**STARS: WHITE DWARFS**

An Archive of *IUE* Low-Dispersion Spectra of the White Dwarf Stars. *J. B. Holberg, M. A. Barstow, & M. R. Burleigh.* 147, 145 (2003)

Symmetrical Chemi-Ionization and Chemi-Recombination Processes in Low-Temperature Layers of Helium-rich DB White Dwarf Atmospheres. *A. A. Mihajlov, Lj. M. Ignjatović, M. S. Dimitrijević, & Z. Djurić.* 147, 369 (2003)

**TECHNIQUES: SPECTROSCOPIC**

A Uniform Database of 2.4–45.4 Micron Spectra from the *Infrared Space Observatory* Short Wavelength Spectrometer. *G. C. Sloan, Kathleen E. Kraemer, Stephan D. Price, & Russell F. Shipman.* 147, 379 (2003)

**ULTRAVIOLET: STARS**

An Archive of *IUE* Low-Dispersion Spectra of the White Dwarf Stars. *J. B. Holberg, M. A. Barstow, & M. R. Burleigh.* 147, 145 (2003)

An *IUE* Atlas of Pre-Main-Sequence Stars. III. Co-Added Final Archive Spectra from the Long-Wavelength Cameras. *Jeff A. Valenti, Adam A. Fallon, & Christopher M. Johns-Krull.* 147, 305 (2003)